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for:

1	1. A program for interfacing a client computer to one or more
2	scan peripheral devices, the program comprising functions for:
3	querying a scan peripheral for a capability descriptor;
4	determining whether an appropriate capability descriptor is obtained
5	in response to said step of querying;
6	storing a capability descriptor associated with a scan peripheral for
7	which an appropriate information capability descriptor has been received as
8	determined in said step of determining;
9	configuring a scan driver for a scan job for a scan peripheral when a
10	scan job is requested by a client by linking a set of pre-stored driving modules, a
11	set of pre-stored driving modules being selected according to user set parameters
12	in the scan job and capabilities indicated in a stored information capability
13	descriptor concerning a scan peripheral to which the scan job is directed.
1	2. The program according to claim 1, further comprising a step of
2	de-linking pre-stored driving modules upon completion of a scan job.
1	3. The program according to claim 1, wherein said step of
2	configuring includes extracting information from a stored capability descriptor to
3	alter a user interface dependent upon a peripheral's capabilities.
1	4. The program according to claim 1, wherein a capability
2	descriptor stored in said step of storing comprises a string including fields
3	indicating dots per inch capabilities, paper size capabilities, color/grayscale
4	options, image formats supported, and whether or not a preview scan is supported.
1	5. The program according to claim 1, stored in a server which
2	provides an interface to a network and at least one scan peripheral.
1	6. The program according to claim 1, stored in a computer
2	connected to at least one scan peripheral.
1	7. The program according to claim 1, further comprising a functions

3	obtaining a model of scan peripheral for a peripheral when said
4	function for determining determines that an appropriate capability descriptor was
5	not received in response to a query conducted by said function for querying; and
6	associating a pre-stored capability descriptor with a scan peripheral
7	whose model was determined by said step of obtaining.
1	8. A scan peripheral server having a network connection interface
2	and one or more ports for connection to at least one scan peripheral, the server
3	including:
4	memory for storing capability descriptors defining capabilities of
5	scan peripherals;
6	memory for storing a set of driver modules; and
7	a program for controlling execution of scan jobs requested from the
8	network connection of a scan peripheral connected to one of said one or more
9	ports, the program comprising functions for
10	obtaining a capability descriptor from one or more scan
11	peripherals connected to any of said one or more ports;
12	storing a received capability descriptor in said memory for
13	storing capability descriptors;
14	accepting a scan job request from said network connection for
15	one or more scan peripherals attached to said one or more ports;
16	extracting capability information from a stored capability
17	descriptor in response to a scan job;
18	sending information to said network connection to modify a
19	user interface;
20	accepting parameters for a scan job from said network
21	connection;
22	linking driver modules from said set of driver modules
23	according to capability information extracted by said function for extracting and
24	parameters accepted by said function for accepting; and

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25	controlling a scan job according to the driver modules linked
26	in said function for linking.
1	9. The server according to claim 8, wherein a capability
2	descriptor comprises a data string of capability data.
1	10. The server according to claim 8, wherein said program for
2	controlling execution of scan jobs further comprises:
3	obtaining model information from any one or more scan peripherals
4	connected to any of said one or more ports when said any one or more scan
5	peripherals does not provide a capability descriptor; and
6	associating a capability descriptor pre-stored in said memory for
7	storing capability descriptors with said any one or more scan peripherals which
8	does not provide a capability descriptor according to model information obtained
9	in said step of obtaining.
1	11. The server according to claim 8, wherein a data string is
2	formatted as a data string including a scan language, an image format, a resolution
3	and a preview scan capability.
1	12. A peripheral including a scanning capability, the peripheral
2	comprising:
3	a scan system for scanning documents and producing electronic data
4	therefrom;
5	an interface for connecting to a client machine or server;
6	memory for storing data;
7	a scan capability descriptor stored in said memory; and
8	a controller for communicating with said client machine or server
9	through said interface to perform a scan job, said controller sending said capability
10	descriptor to said client machine or server through said interface in response to a
11	query requesting a capability descriptor.
1	13. A method for controlling a scan job directed to a peripheral

including a scanning function, the method comprising steps of:

3	obtaining a capability descriptor from the peripheral including the
1	scanning function; then, to implement a scan job,
5	configuring a scan driver from a set of scan drive modules based
6	upon capabilities indicated by said capability descriptor and parameters included
7	in the scan job.